

Module 2 Probability Review

Name _____

A cooler contains 2 cans of grape juice, 3 cans of lemonade, and 7 cans of orange juice. A can of juice is chosen without looking. Find each probability. (NOTE: The juice cans are NOT replaced after each pick).

1) $P(\text{lemonade})$ 2) $P(\text{orange juice})$ 3) $P(\text{grape juice})$

A die is rolled. Find each probability.

4) $P(5)$ 5) $P(2)$ 6) $P(2, 4, \text{ or } 6)$ 7) $P(3 \text{ or } 4)$ 8) $P(\text{not a } 6)$ 9) $P(7)$ 10) $P(\text{even \#})$ 11) $P(9)$

There are 4 grape, 2 strawberry, 3 lemon, and 7 lime gumballs in a bag. Suppose you select a gumball at random. Find each probability. (NOTE: The gumballs are NOT replaced after each pick!)

12) $P(\text{strawberry})$ 13) $P(\text{lemon or grape})$ 14) $P(\text{peppermint})$ 15) $P(\text{grape, strawberry, or lemon})$

Draw a tree diagram to find the number of outcomes and probabilities.

16) Allison has one red skirt, one yellow skirt, and one hot pink skirt. She also has one pair of black shoes and one pair of tennis. Allison also has a tank top, a T-shirt, and a sweater.

16a) How many different outfits can Allison wear?

16b) What is the probability that she will wear her hot pink skirt with black shoes?

16c) What is the probability that she will wear her tennis and her tank top?